

Receiving Report

Date: B/E

Batch No: 130566

Supplier: 14-10-8

Dart P/O: 26028

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr
 New Supplier Yes No

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No
 Shipment Complete: Yes No N/A
 QC18 Inspection
 Work Order

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26028**

Purchase Order Date 10/6/2014
PO Print Date 10/6/2014

Page Number 1 of 3

Order From : VU-BEA001
B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Customer POID	
	Customer Tax #	10127-2607
Ship To Contact	Terms	Net 30
Ship To Phone	Currency	USD
Ship Via:	FOB	FCA - (Free Carrier)
Ship Acct:		

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
			Promise Date				
1	NAS1611-013	O-RING	10/8/2014 Yes 10/8/2014		200.00 Each	\$0.35	\$70.00
						Line Total:	\$70.00
2	NAS43DD3-10FC	Spacer	10/8/2014 Yes 10/8/2014	FN	40.00 Each	\$0.40	\$16.00
						Line Total:	\$16.00
3	AN3-12A	Bolt	10/8/2014 Yes 10/8/2014	FN	200.00 Each	\$0.15	\$30.00
						<i>8P14-10-8</i>	

Note:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26028**

Purchase Order Date 10/6/2014

PO Print Date 10/6/2014

Page Number 2 of 3

Order From : VU-BEA001
B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name	
Vendor Phone	305-925-2600
Ship To Contact	
Ship To Phone	
Ship Via:	FedEx Overnight collect
Ship Acct:	

Buyer	Chantal Lavoie
Customer POID	
Customer Tax #	10127-2607
Terms	Net 30
Currency	USD
FOB	FCA - (Free Carrier)

						Line Total:	
4	MS27039C0819	Screw	10/8/2014	FN Yes 10/8/2014	200.00 Each	\$2.07	\$414.00
5	MS27039C1-07	screw	10/8/2014	10/8/2014	50.00 Each	\$0.75	\$37.50
					8P14-10-8.		
						Line Total:	\$37.50

Note:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26028**

Purchase Order Date 10/6/2014
PO Print Date 10/6/2014

Page Number 3 of 3

Order From : VU-BEA001
B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	305-925-2600	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	FedEx Overnight collect	Currency	USD
Ship Acct:		FOB	FCA - (Free Carrier)

6	71401-45	PROCUREMENNT QUALITY CLAUSES	10/8/2014	1.00 ✓	\$0.00	\$0.00
---	----------	---------------------------------	-----------	--------	--------	--------

No
Procurement Quality Clauses
A005 RIGHT OF ENTRY
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT
A033 STATEMENT OF CONFORMITY/TEST RECORDS
FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

Line Total: \$0.00

PO Total: \$567.50

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com

Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001

Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HWMJYT

PAGE 1

SOLD TO:

002409
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7



SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS			SHIPPING TERMS	
PO26028		10/07/14	FEDX INTL P1 COLL	NET 45			FOB-MIAMI	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
2	40	NAS43DD3-10FC Description SPACER, SLEEVE-SCREW ECCN :9A991 MFR: MINI MAC CTRL#: 2013H20321 LOT#: 0081939 LOT QTY: 40 Country of Origin USA		0.400	EA	0	40	16.00

These commodities, technology or software were
exported from the United States in accordance
with the Export Administration Regulations.
Diversion contrary to U.S. law is prohibited.

CONTINUED

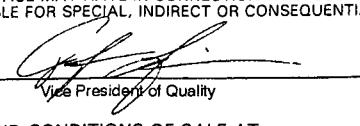
MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY B/E AEROSPACE

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

MATERIAL CERTIFICATION: B/E AEROSPACE, INC. ("B/E AEROSPACE") WARRANTS THAT THE ITEMS SUBJECT OF THIS INVOICE WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM ACCOMPANYING THE ITEMS SUBJECT OF THIS INVOICE, ARE IN CONFORMITY WITH ALL CURRENT GOVERNMENTAL REQUIREMENTS AND THE SPECIFICATIONS OF THE RESPECTIVE MANUFACTURERS. B/E AEROSPACE DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF B/E AEROSPACE IS EXPRESSLY LIMITED EXCLUSIVELY TO REPLACEMENT OF ANY ITEM WHICH IS REJECTED BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP SUCH REPLACEMENT SHALL CONSTITUTE SATISFACTION OF ALL LIABILITY B/E AEROSPACE MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE, OR OTHERWISE, AND IN NO EVENT SHALL B/E AEROSPACE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, B/E AEROSPACE MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

PACKING SLIP


Vice President of Quality

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS PACKING SLIP, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
http://www.beconsumables.com/cm/conditions_of_sale.cfm





B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com
Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001
Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York
ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

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PAGE 2

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

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HWMJYS

PAGE 1

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002409
 DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY, ON
 CANADA K6A 1K7



SHIP TO:

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY, ON
 CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA		TERMS		SHIPPING TERMS	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
3	200	AN3-12A Description BOLT ECCN :9A991 MFR: MAC FASTENERS CTRL#: 2014B20395 LOT#: 68990 LOT QTY: 200 Country of Origin USA	MS27039C0819	0.150	EA	0	200	30.00
4	200	Description SCREW ECCN :9A991 MFR: AEROTECH FAST. CTRL#: 2008C00111 LOT#: A-2711 LOT QTY: 200 Country of Origin USA	MS27039C1-07	2.070	EA	0	200	414.00
5	50	Description SCREW ECCN :9A991 MFR: MAC FASTENERS CTRL#: 2014I00189 LOT#: 66253 LOT QTY: 50 Country of Origin USA	MS27039C1-07	0.750	EA	0	50	37.50
<p><i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i></p> <p>***CONTINUED***</p>								

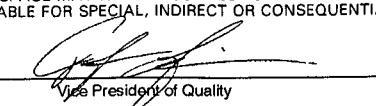
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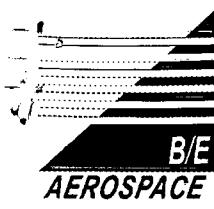
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HWMJYS

PAGE 2

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DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

A standard linear barcode is located at the top of the page, consisting of vertical black lines of varying widths on a white background.

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

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B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT



CONSOLIDATION

1B15ZY

PAGE 1

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com

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Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

SEND TO ACCOUNTING

SOLD TO:
002409DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS		
See Below		10/07/2014	FEDX INTL P1 COLL	NET 45		FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		<u>INVOICE# CUST P/O</u> FED. TAX# 06-120-9796						
1		HWMJYS	PO26028					
2		HWMJYT	PO26028					
rxg		***CONSOLIDATION SUMMARY PAGE ONLY						
		SHIPPED ON 10/07/2014						

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY B/E AEROSPACE

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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26028

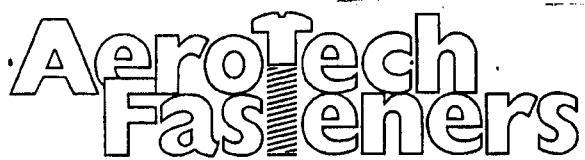
LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
------	----------	-----	-------------	-----------	------------	--------------	-------	----------	----------

4	200	EA	MS27039C0819		A-2711	AEROTECH FAST.	0TD46		
---	-----	----	--------------	--	--------	----------------	-------	--	--



Jason Lewis
Vice President of Quality

10/07/14



ONE RIDGE ROAD, PUTNAM, CT 06260

Phone: + 860-928-6300

Fax: + 860-928-6340

CAGE CODE# OTD46

sales@aerotechfasteners.com

MANUFACTURERS CERTIFICATE OF COMPLIANCE

Date: *February 22, 2008*

Customer: M & M AEROSPACE HARDWARE, INC. Order Number: OEN110

Part Number: MS27039C0819

Lot Number: A-2711

Shipment Number: -5

Rev: 98-NASM27039 Quantity Shipped: 3,000 UNIT: EA
CAPABLE OF REV 1-NASM27039

DOM: 11/20/98 Procurement Specification: NASM7839

MFG: AEROTECH FASTENERS – Manufactured in the U.S.A.

Mechanical Test

TEST RESULTS

Test Type: TENSILE

Minimum Requirement: 1750

Per: MIL-STD-1312, test method: 8

Minimum: 2668

Unit of Measure: LBS

Maximum: 2688

How many samples tested: 5

Average: 2677

Due to Fastener length, Test performed on wire samples: **NO**

ADDITIONAL TESTS/COMMENTS

THREADS: 0.164-32, UNC-3A Fed-Std-H28/20, System 21 X 22

FINISH: Passivate, QQ-P-35: TY.6 TY.8 X

ADDITIONAL DOCUMENTATION ATTACHED

RAW MATERIAL CERTIFICATION:

A286

Heat Number: SE908

Composition: AMS5732

Company: TECHALLOY

HEAT TREAT CERTIFICATION X

per: AMS2759, REF: MIL-H-6875

OTHER CERTIFICATIONS SUPPLIED X

Country of Origin, FRANCE

Raw Material is DFAR 252.225-7014 Alt1 (.872-1 compliant)

Aerotech Fasteners Inc. hereby certifies that the parts contained in this shipment are in conformance with all applicable drawings and specifications. Evidence in the form of suppliers' certificate and/or chemical and physical test reports are on file and available for review at the customers' request.

Sandra Britton

Office Manager, Aerotech Fasteners



Manufacturers of Quality Aerospace Fasteners



THE LEADING MANUFACTURER OF STAINLESS STEEL, NICKEL ALLOYS AND WELDING PRODUCTS
EXECUTIVE OFFICES: 370 FRANKLIN TURNPIKE, MAHWAH, NJ 07430-2259 PHONE 201-529-0900 FAX 201-529-1074

NORCROSS, GA
NORCROSS, GA (WELDING)
UNION, IL
UNION, IL (WELDING)

770-923-3353 FAX 770-923-3709
770-923-6447 FAX 770-923-8117
815-923-2131 FAX 815-923-2128
815-923-2131 FAX 815-923-7242



BALTIMORE, MD 410-633-9300 FAX 410-633-2033
NORTHAMPTON, MA 413-584-3964 FAX 413-584-5288
HOUSTON, TX 713-466-1000 FAX 713-466-7425
PERRIS, CA 909-657-2105 FAX 909-943-6061

PERRIS SERVICE CENTER
2500 "A" STREET
TEL: 909-657-2105

PERRIS, CA 92570-9361
FAX: 201-529-1074

CERTIFICATE OF CONFORMANCE

SOLD
TO

AEROTECH FASTENERS
P. O. BOX 713
DANIELSON, CT 06239

SHIP
TO

AEROTECH FASTENERS INC
50 TIFFANY STREET
BROOKLYN, CT 06234

CUSTOMER'S PO NO.	TYPE OF CERT	CUSTOMER	TECHALLOY ORDER NO.	WORK ORDER	DATE SHIPPED
2954	Customer	100908	808099409 02	0000058795	9/30/98
SPECIFICATIONS: 15/17%CR, AMS 5731J, CAP OF AMS 5732G, AMS 5734H, AMS 5737M					

DESCRIPTION	SPEC. CLASS	HEAT
.1605 DIA. A286 STAINLESS STEEL X COIL, COPPER COATED, CHQ, HQ 15/17% C.R.	SE908	
	QTY SHIP 1101.000	

C	MN	SI	S	P	CR	NI
.040	1.610	.130	< .001	.013	14.390	24.540
CU	B	.008	FE Balance	AL .160	TI 2.200	CO .120
V	BI	.00002	PB .0001			MO 1.250

AS SHIPPED PROPERTIES:							
TENSILE 104.500 KSI	GRAIN SIZE 6.000 ASTM						

AFTER HEAT TREAT PROPERTIES:							
TENSILE 167.000 KSI	YIELD 140.000 KSI	ELONGATION 18.000 %	R/A 50.000 %	S/RUPTURE 1200.000 DEG F	TIME 137.000 HRS	ELONGATION 26.000 %	LOAD 70.000 KSI

WE HEREBY CERTIFY THAT THE SAMPLES REPRESENTATIVE OF THIS MATERIAL MEET
THE REQUIREMENTS OF THE SPECIFICATION(S) IN WHICH IT WAS PURCHASED

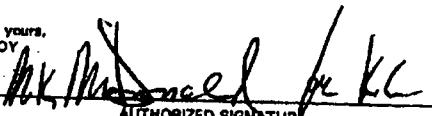
Accept
CAB
10/20/98

MILL SOURCE, IMPHY, FRANCE

KEN GOLD, QUALITY CONTROL MANAGER

The material as shipped is free from mercury contamination.
The mechanical properties and chemical analysis are correct as contained
in our records.

Very truly yours,
TECHALLOY


AUTHORIZED SIGNATURE

OCT-15-1998 15:36

TECHALLOY CO., INC.

815 923 2126 P.04/07


CERTIFICAT DE CONTROLE EN USINE N° 0031212/2
 DIN certificate - Abnahmeprüfung
 ISO 9002

VILLE - MONTREAL, QUEBEC

50160 IMPHY FRANCE

TELEPHONE: 03 89 21 30 99 TELEX: 37 800 470 F
TELEFAX: 03 89 21 30 99 E-mail: 344 074 150Customer
Number : TECHAL. UNION/ILDocument
Number : MAC 9492/TCI/0296-2

Date : 03.11.98

Specification
Number : D.3.PRS.010.5/REV.CCustomer
Number : 122602/01Customer
Number : FACTORY Q.C RELEASEProduct
Description : SUPERIMPHY 208 WIRE ROD
DIAM/6,00/MM
A - 208 (.236")Type of Inspection
Specification
Number : SHAVED
Date : 03.11.98
Customer
Number : 4000873166COMPOSITION CHIMIQUE
CHEMICAL COMPOSITION
COMPOSITION QUIMICA (EN PCTO)Ref ID: PT629/SE908
Ref ID: SE908

.04	1.01	.13	< .001	.013	24.54	14.39	1.65	.14	.12
.31	.16	2.20	< .0001	< .00002	.008	bal.			

CARACTERISTIQUES MECANIQUES ET AUTRES ESSAIS / TESTS RESULTS

ETAT DE LIVRAISON

CONDITION OF DELIVERY

RESISTANCE..... MAX. STRENGTH..... : 581 MPa
GRAIN ASTM..... GRAIN ASTM..... : 6 ASTMHYPERTREMPE 980°IN EAU-VIEILLISSEMENT 720°16H AIR
HOT TREATMENT OF 980°IN WATER COOLED 16H AIRLIMITE ELASTIQUE. YIELD STRENGTH 0.2% : 772 MPa
RESISTANCE..... MAX. STRENGTH..... : 1087 MPa
ALLONGEMENT..... ELONGATION 50.50% : 28.9 %
STRICKTION..... RED. OF AREA..... : 51.4 %
DURETE HB..... ROCKWELL..... : 306 HB

FLUAGE

FLUENCY TEST AT IMPHY (DIN 5010)
MAX. FL. 2000 MPa (2000 kgf/mm²)
DUREE DE VIE..... TIME..... : 136.7 H
ALLONGEMENT..... ELONGATION..... : 25.5 %

QUALITY CONTROL

MERLIN CHR.

10.14.98
Signature
J. MERLIN,
DEPARTMENTVoir page suivante
See next page

AMMIDI TUTU 01/98

PAGE N°: 1
DRAFTED BY: J. MERLIN 21/09 2002

OCT-15-1998 15:36

TECHALLOY CO. INC.

915 923 2126 P.05/07



CERTIFICAT DE CONTROLE EN USINE n°**0031212/2**
Nou certificat - Abstinență de la boala
190 0002

TECHAL-UNION/IL	122602/01
MAC 9492/TCI/B296-2	03.11.98
D.3.PRS.010.S/REV.C	FACTORY Q.C RELEASE

ETAT HYPERTREMPE 800° = VIEILLISSEMENT 720° 1CM AIR
HEAT TREATMENT OF TEST SPECIMEN IS 800° IN WATER-SUSPENSION AIR

LIMITE ELASTIQUE.	YIELD STRENGTH S. A. S.	783 MPA
RESISTANCE.	PEAK LOAD STRENGTH	1085 MPA
ALLONGEMENT.	ELONGATION AT 0.2%.	28.0 %
STRICITION.	EL. OF AREA.	50.3 %
DURETE HB.	HARDNESS.	305 HB

FLUUAGE

STRESS ADAPTATION TEST AT 1300°F (600°C)

WINTER (12.1995 PAPERBACK)

DUREE DE VIE..... TIME..... 202.4 H
ALLONGEMENT..... ELEVATION..... 25.5 %

RECORDED AND INDEXED BY THE LIBRARY OF CONGRESS

OR ALPHA PARTICLE CONTAMINATION

"THE WILLFUL RECORDING OF FALSE OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY RESULT IN PUNISHMENT AS A FELONY UNDER FEDERAL STATUTES"



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26028

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REP#	LOT-NUMBER	MANUFACTURER	CCODE	MPR DATE	EXP DATE
3	200	EA	AN3-12A		68990	MAC FASTENERS	0RFPT4		



Jason Lewis
Vice President of Quality

10/07/14

**MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0RSS63

PART NUMBER: AN3-12A

REV: 2

LOT NUMBER: 68990

MANUFACTURED QUANTITY: 120,000

MILL HEAT NUMBER: 8172051

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

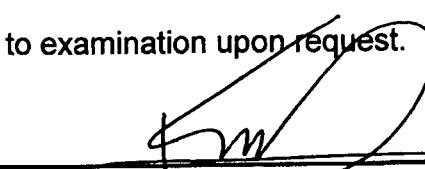
MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number
do not contain Mercury or Mercury compounds, and were
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured
by MAC FASTENERS, INC. within the United States, and were processed in accordance with all
applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 02/03/14


QUALITY ASSURANCE REPRESENTATIVE

MAC FASTENERS, INC.
1110 EAST ENTERPRISE
OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER B/E AEROSPACE	PO NUMBER 0RSS63	MFG QUANTITY 120,000	DATE 02/03/14
PART NUMBER AN3-12A	REV 2	LOT NO 68990	PROCUREMENT SPEC NASM6812

MATERIAL TYPE 8740				MATERIAL SPECIFICATION MIL-S-6049/AMS6322				MILL HEAT NUMBER 8172051				SUPPLIER JOHNSTOWN		
C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	B	Fe	Al	Ti	
.40	.25	.86	.010	.011	.09	.44	.49	.22	.003		.026			
	Co	N	Bi	Pb	Mg	Zn		Nb	Sn			Other		
									006					

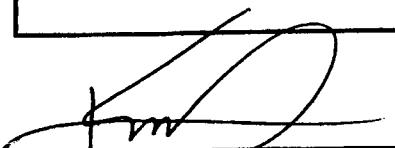
MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	DOUBLE SHEAR STRENGTH POUNDS / PSI	HARDNESS
3,260	4,880	ROCKWELL "C" SCALE
3,230	4,760	REQ. 26 - 32 HRC
3,300	4,790	SAMPLE SIZE 5
3,290	4,830	ACTUAL RESULTS
3,310	4,840	27 - 32 HRC
MIN. REQ. 2,210	MIN. REQ. 4,250	

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input checked="" type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3	System <input type="checkbox"/> 21	System <input checked="" type="checkbox"/> 22	System <input type="checkbox"/> 23

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.


Quality Assurance Representative

AS9100C REGISTERED
SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 02/03/14

PO NUMBER: 0RSS63

MANUFACTURED QUANTITY: 120,000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER: 68990

MATERIAL: TYPE 8740

PART NUMBER: AN3-12A

REVISION: 2

REQUIRED HARDNESS: 26 - 32 HRC

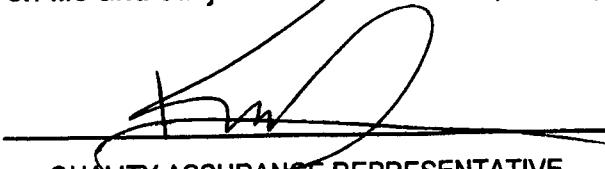
SAMPLE SIZE: 5

HARDNESS: 27 - 32 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.


QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company - SAI GLOBAL - 0058029

DE TRAY Plating Works

Specialized Electro-Plating and Polishing

Nickel	Passivate
Copper	Bright Dip
Decorative Chrome	Strip Copper
Satin Chrome	Descale
Zinc	
Cadmium	

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

January 30, 2014

Mac Fasteners
1110 East Enterprise Street
Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been cadmium plated per QQ-P416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 2. Please reference our Invoice# 176448 dated 1/30/2014 for:

Lot#- 68990

P.N.- AN3-12A

James T. Pierson, Vice-President



DE TRAY PLATING WORKS



**Johnstown
Wire
Technologies**

SOLD TO

Mac Fasteners, Inc.
C/O TD Logistics Inc.
14505 W 100th Street
Lenexa, KS 66215
USA

124 Laurel Ave,
Johnstown, PA 15906

Phone: 814-532-5680
Fax: 814-532-5684

WORK ORDER
883637

TEST REPORT

LOT NUMBER

K-8172051

SALES ORDER / RLS
002641 / 1



CUSTOMER P.O.	CUSTOMER PART		QUANTITY	COILS	LADING NO	SHIPMENT DATE						
50516			27,381 LBS	14	00120503	10/22/2013						
SPECIFICATION MacFast-87186												
AMS2301; AMS6322; AMS-S-6049A; MIL-S-6049A 8740 DFARS Defense Federal Acquisition Regulation												
Supplement Silicon Killed Fine Grain Aircraft Quality/Cold Heading Quality Drawn From Annealed Rod												
Spherodize Annealed In Process Heavy Phos & Light Lube Ctd												
Size: .1865 +.001 -.000												
CERTIFICATION REQUIREMENTS												
Chemical												
C	Mn	P	S	Si	Al	Ni	Cr	Mo	Cu	V		
.40	.86	.010	.011	.25	.026	.44	.49	.22	.09	.003		
Cb	Ti	N	Sn									
.001 ???????	.0043		.006									
Physical												
AMS 2301	J1	J10	J11	J12	J2	J3	J5	J4	J6	J7	J8	J9
0000	58	42	39	38	57	56	55	56	54	51	48	45
MacroClean E-381												
111												
Mechanical												
<u>TEST</u>	<u>UNITS</u>			<u>HIGH</u>		<u>LOW</u>			<u>AVERAGE</u>			
Tensile Str	Lbs/SqIn			83000		80000			81000			
RA Per Cent	Percent			73.1		71.9			72.5			
Decarb FFD	Inches			.000		.000			.000			
Surface def. depth	Inches			.000		.000			.000			
Rod / Melt Source												
Rod Source	Melt Source			Country of Origin		Nafta						
Republic	Republic			USA		Yes						
End of Certification												

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWL A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

Daniel J. Malik
Daniel J. Malik, Director of Quality Assurance



CERTIFICATE OF TESTS

1807 BABY 28TH ST.
PHONE: 330-438-5580LORAIN, OH 44055
FAX: 330-438-5695

REPUBLIC STEEL

6/25/2013

11:08:00 AM

PAGE 1 OF 2

PURCHASE ORD: 84084
 PART NUMBER: FXT40AA-.375
 ORDER NUMBER: 1547434 - 01
 HEAT: 8172051

PURCHASE ORDER DATE: 3/4/2013
 ACCOUNT NUMBER: 5672-1921-01
 SCHEDULE: 6101-93
 REVISION: 1

===== CHARGE ADDRESS ===== SHIP TO =====

JOHNSTOWN WIRE TECHNOLOGIES
 124 LAUREL AVE
 JOHNSTOWN, PA 15906

JOHNSTOWN WIRE TECHNOLOGIES
 EDWARD ZAPOLA
 C/O C & BL RAILROAD
 TRACK 629
 JOHNSTOWN, PA 15901

MATERIAL DESCRIPTION
 HOT ROLLED STEEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA
 10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS
 JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COND B-1 EXC MARK &
 UT WAIVED EF-AISI-8740-H FINE GRAIN VACUUM DEGASSSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY
 RESTRICTED CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS

SIZE: RDS .3750 DIAM X COIL
 RDS 9.5250MM DIAM X COIL

LADLE CHEMISTRY %

C	MN	P	S	SI	CU	NI	CR
0.40	0.86	0.010	0.011	0.25	0.09	0.44	0.49
V	MO	SN	AL	B	CB	N	
0.003	0.22	0.006	0.026	0.0001	0.001	0.0043	

CALCULATED TESTS

REDUCTION RATIO 1,177.6 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM A29.

SEMI - FINISHED RESULTS

JOMINY HARDNESS TEST SAE J406/ASTM A255
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
 58 57 56 55 54 51 48 45 42 39 38 36 34 33 32 31 30 29 29 29 28 26

MACRO ETCH TEST ASTM E381/MIL STD 430
 ETCHANT: HCl. TEMPERATURE: 170

S	R	C
Avg	1	1

MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300

IND	AVG	IND	AVG
FREQ	FREQ	SEV	SEV
PCE 03	0	0	0

FINISHED SIZE RESULTS

DECARBURIZATION TEST SAE J419/ASTM E1077/JIS G0559
 ETCHANT = NITAL MAGNIFICATION = 100X

		TOTAL	
SPIKE	COMPLETE	DEPTH	
INCHES	INCHES	INCHES	
PCE 6579	0.002	0	0.001

G. KRUTH BY DEBORAH STOKES
 DIRECTOR QUALITY ASSURANCE



CERTIFICATE OF TESTS

1807 EAST 28TH ST.
PHONE: 330-438-5680

LORAIN, OH 44053
FAX: 330-438-5696

REPUBLIC STEEL

6/25/2013
11:08:00 AM
PAGE 2 OF 2

PURCHASE ORD: 84084
PART NUMBER: FXT40AA-.375
ORDER NUMBER: 1547434 - 01
HEAT: 8172051

PURCHASE ORDER DATE: 3/4/2013
ACCOUNT NUMBER: 5672-1921-01
SCHEDULE: 6101-93
REVISION: 1

CAPABLE OF SEAM DEPTH 1% MAX DIAMETER NOT LESS THAN .005 MAX

NOTES

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN

NOTES (CONTINUED)
ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF
SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED
AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE
DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A

MELT METHOD: EF BLOOM RED. RATIO: 1177.6

END OF DATA

CC

END OF DATA

WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA

1-814-532-5684

FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA

FILE 1 COPY

G. KRUTH
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26028

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REP#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
5	50	EA	MS27039C1-07	9	66253	MAC FASTENERS	0RFT4		



Jason Lewis
Vice President of Quality

10/07/14

**MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067**

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0LTX71

PART NUMBER: MS27039C1-07

REV: 4

LOT NUMBER: 66253

MANUFACTURED QUANTITY: 104,000

MILL HEAT NUMBER: QQ358/16

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

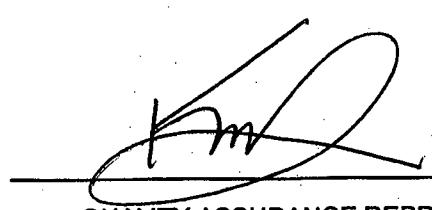
MERCURY FREE CERTIFICATION

MacFasteners certifies that the parts referenced in the above lot number
do not contain Mercury or Mercury compounds, and were
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is an AS9100C Registered Company- SAI GLOBAL - 0058029
Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4
Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 08/21/14


QUALITY ASSURANCE REPRESENTATIVE

MAC FASTENERS, INC.
1110 EAST ENTERPRISE
OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER B/E AEROSPACE				PO NUMBER 0LTX71				MFG QUANTITY 104,000			DATE 08/21/14		
PART NUMBER MS27039C1-07				REV 4	LOT NO 66253			PROCUREMENT SPEC NASM7839					

MATERIAL TYPE A286				MATERIAL SPECIFICATION AMS5731/AMS5737				MILL HEAT NUMBER QQ358/16				SUPPLIER KOS WIRE		
C .037	Si .088	Mn 1.71	P .013	S .001	Cu .087	Ni 24.56	Cr 14.8	Mo 1.25	V .293	B .006	Fe .185	Al 2.18	Ti Other	
	Co .205	N	Bi	Pb	Mg	Zn		Nb	Sn					

MECHANICAL TEST RESULTS - TESTING PER NASM1312

ULTIMATE TENSILE STRENGTH POUNDS	
3,610	3,570
3,330	3,610
3,480	3,520
3,470	3,360
3,390	3,460
3,590	
3,600	
3,520	
MIN. REQ.	2,500

DOUBLE SHEAR STRENGTH POUNDS / PSI	
TOO SHORT TO TEST PER NASM1312-13	MIN. REQ.

HARDNESS	
ROCKWELL "C" SCALE	
REQ.	24 - 37 HRC
SAMPLE SIZE	13
ACTUAL RESULTS	34 - 37 HRC

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	<input type="checkbox"/>
Liquid Penetrant Inspection per ASTM E1417	<input type="checkbox"/>
Head Marking	<input checked="" type="checkbox"/>
Fatigue Strength	<input type="checkbox"/>
Stress Durability Test NASM1312/5	<input type="checkbox"/>
Stress Rupture Test	<input type="checkbox"/>
Magnetic Permeability ASTM A342 Less than 2.0	<input checked="" type="checkbox"/>

METALLURGICAL EXAMINATION			
Discontinuities	<input checked="" type="checkbox"/>	Carb/Decarb	<input type="checkbox"/>
Grain Flow	<input checked="" type="checkbox"/>	Microstructure	<input checked="" type="checkbox"/>
Grain Size	<input checked="" type="checkbox"/>	Appearance	<input checked="" type="checkbox"/>
Thread Inspection FED-STD-H28/20 - ASME B1.3	System <input type="checkbox"/> 21	System <input checked="" type="checkbox"/> 22	System <input type="checkbox"/> 23

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED
ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE
SPECIFICATION

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-
PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.


Quality Assurance Representative

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 08/21/14

PO NUMBER: 0LTX71

MANUFACTURED QUANTITY: 104,000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER: 66253

MATERIAL: TYPE A286

PART NUMBER: MS27039C1-07

REVISION: 4

REQUIRED HARDNESS: 24 - 37 HRC

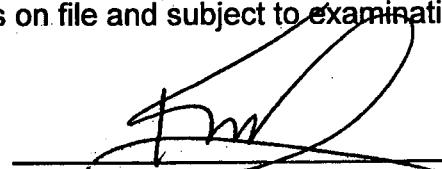
SAMPLE SIZE: 13

HARDNESS: 34 - 37 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.


QUALITY ASSURANCE REPRESENTATIVE

DE TRAY Plating Works

Specialized Electro-Plating and Polishing	
Nickel	Passivate
Copper	Bright Dip
Decorative Chrome	Strip Copper
Satin Chrome	Descale
Zinc	
Cadmium	

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

Passivate Treatment per AMS2700 Method I, Class 4

CUSTOMER: Mac Fasteners Lot#: 66253
PART NUMBER: MS27039C1-07
PROCUREMENT SPECIFICATION: n/a
OTHER CONTRACTURAL REQUIREMENTS:
MATERIAL: A286
QUANTITY: 570 lbs
INVOICE NUMBER: 182431

Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with AMS2700 Method I, Class 4 and part standard.

DE TRAY PLATING WORKS

NAME: _____

JOB TITLE: VICE-PRESIDENT

DATE: 8/19/2014



KOS LIMITED

(YUSAN-DONG) 43, EOSIL-RO, YANGSAN-SI, GYEONGSANGNAM-DO, KOREA

TEL : (055) 389-1050 FAX : (055) 385-9189

E-mail : kosyrd@koswire.com

Inspection Certificate

DATE OF ISSUE: 2014-01-30

DESCRIPTION	STAINLESS STEEL WIRE FOR COLD HEADING (WSB)		
MILL CERT.NO.	AB1-201401A-0678	GRADE	A286VAR
P.O NO.	86912	DIAMETER	0.1690 inch
INVOICE NO.	B136060/03 (B136062-33)	FINISH	DU X-CO (COIL)
CONTRACTOR	KOS AMERICA, INC.	QUANTITY	606.3 LBS (3 COILS)
CUSTOMER	MACFASTENERS, INC	APP. SPEC	BUYER'S SPEC

CHEMICAL COMPOSITION

(wt%)

COMPONENT	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	A1
CH. NO.	Min	0.0100	0.0000	0.0000	0.0000	24.0000	13.5000	1.0000	0.0000	0.1000	0.0000
	Max	0.0800	1.0000	2.0000	0.0250	27.0000	16.0000	1.5000	0.5000	0.5000	0.3500
QQ358/16		0.0370	0.0880	1.7100	0.0130	0.0010	24.5600	14.8000	1.2500	0.0870	0.2930

INSPECTION RESULTS

ITEMS	SIZE (inch)	T/S (ksi)	R/A (%)						LOT NO.	REMARK
COIL NO.	+0.00100	120.0								
	+0.00000	90.0								
1	0.1696	110.9	67.3						1T0101-40114-0059	QQ358/16
2	0.1696	110.9	67.6						1T0101-40114-0060	
3	0.1696	111.0	67.7						1T0101-40114-0061	
REMARKS	D/A CONT. NO : KSS0433/14 A286 .1690	We hereby certify that the material described herein has been made in accordance with the specification of the order.						<i>W.S.BAEK</i>		
								MANAGER OF Q.C Dept.		

END

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APPENDIX

SPECIFICATION

Customer' Spec. Code	BUYER'S SPEC									
References	AMS 5731L, AMS 5732J, AMS 5734K, AMS 5737P, AMS5853C									

CHEMICAL COMPOSITION

QQ358/16	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Al
	0.0370	0.0880	1.7100	0.0130	0.0010	24.5600	14.8000	1.2500	0.0870	0.2930	0.1850
	Co	Ti	B								
	0.2050	2.1800	0.0060								

RAW MATERIAL INFORMATION

Supplier	APERAM ALLOYS IMPHY									
Country of origin	FRANCE									
Melt Method	AOD / VAR.									
Surface	Seam Free									
DFARS	Compliance with DFARS 252.225-7014 ALT.									
Others	Free from Mercury, Radium or Alpha Source contamination.									
Heat No.	QQ358/16									

MECHANICAL PROPERTIES AFTER HEAT TREATMENT

H.T. Condition : 1800°F 1hr WQ + 1325°F 16hr AC					Stress Rupture		
TENSILE, KSI	YIELD, KSI	E/L, %	R/A, %	HB	1200°F 70 KSI	Time, hr	E/L, %
159.8	100.7	27.0	52.0	311.0		17.0	141.3
H.T. Condition : 1650°F 1hr WQ + 1325°F 16hr AC					Stress Rupture		
TENSILE, KSI	YIELD, KSI	E/L, %	R/A, %	HB	1200°F 65 KSI	Time, hr	E/L, %
163.7	114.2	28.0	51.0	332.0		204.1	25.0
Grain Size : ASTM No. 6.5					W.S. BAEK		
We hereby certify that the material described herein has been made in accordance with the specification of the order.					MANAGER OF Q.C Dept		

END

operam**MILL'S CERTIFICATE**

n° C070213/1

Usine - Works - Werk
 Alloys Impy
 58160 IMPHY FRANCE
 Telephone: 03 86 21 30 00
 Télephone: 03 86 21 31 00

Client
 Customer
 Kunde

KOS LIMITED

U/Commande
 Your order
 Ihre Bestellung, Nr.

EMAIL DATED JUNE 21TH

21/06/13

Nr/Reference
 Our reference
 Unser Auftrag Nr.

333954/09

Specification
 Specification
 Vorschrift

AMS CHEMISTRY

Product
 Product
 Erzeugnisform

+ ORIGIN : FRANCE FRANCE

7221000000

+STAINLESS STEEL WIRE ROD(HOT-ROLLED, IN IRREGULARLY WOUND COILS)

SUH660VAR A6MM

1,282.00 KG

+PRICE TERM : CIF

DOCUMENTARY CREDIT NUMBER : M0806310EU00071

COMPOSITION CHIMIQUE (En poids) CHEMICAL COMPOSITION (En weight) CHEMISCHE ZUSAMMENSETZUNG (En Gewicht)								Coulée N° Cast Nr. Schmelze Nr.		
C	Mn	Si	S	P	Ni	Cr	Mo	CU	Co	
.037	1.710	.088	.001	.013	24.560	14.800	1.250	.087	.205	
V	Al	Ti	Pb	Bi	B	Fe				
.293	.185	2.180	< .0001	< .00002	.006	bal.				

CARACTERISTIQUES MECANIQUES ET AUTRES ESSAIS / TESTS RESULTS**ETAT DE LIVRAISON**

CONDITION OF DELIVERY

RESISTANCE..... TENSILE STRENGTH..... : 602 MPa
 ALLONGEMENT..... ELONGATION..... : 40 %
 STRACTION..... RED. OF AREA..... : 74 %
 GRAIN ASTM..... SIZE ASTM..... : 6.5 ASTM

CHEMISTRY TO MEET AMS 5731, AMS 5732, 5734 AND 5737
 NO WELDING WITH FILLER METAL HAS BEEN PERFORMED
 MATERIAL IS FREE FROM MERCURY, RADIUM, OR ALPHA SOURCE
 CONTAMINATION
 APPROVAL ACCORDING TO DESP 97/23/EC ANNEX I PARAGRAPH 4.3

TESTS RESULTS FOLLOW

QUALITY CONTROL

DELARBOULAS M.

Signature
 Signature
 Unterschrift

28/10/13
 Imphy plant..



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26028

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REP#	LOT-NUMBER	MANUFACTURER	CCODE	MPR DATE	EXP DATE
2	40	EA	NAS43DD3-10PC		0081939	MINI MAC	8X408		



Jason Lewis
Vice President of Quality

10/07/14

Mini-Mac, Inc.**Packing Slip**

Ship To
1703 Southwest Blvd
Wichita, KS 67213
Mail To
P.O. Box 286
Derby, KS 67037
Phone (316) 733 - 0661
Fax (316) 733 - 4250
Fed Tax ID 48-0768147

Page 1

Sold To

B/E Aerospace, Inc.
P.O. Box 025263
Miami, FL 33102-5263

Shipped To

B/E Aerospace, Inc.
9835 NW 14th Street
Miami, FL 33172

Freight Collect	COD Charge	Insured Value
UPS / Acct# 363159		
Date Shipped	Your Order No.	Packing Slip No.
08/21/13	OMEB21	0081939
Quantity	Description	
25,000 EA	NAS43DD3-10FC Rev 12 Prod Lot#: 0081939	
Certificate of Conformance		
We hereby certify that the materials covered by this certification meet the applicable requirements of this order, drawing, and/or specification. Supporting evidence is on file for examination.		
 Inspector		

Original